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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,893	01/28/2005	Pauli Koutonen	FORSAL-99	7248
36528	7590	08/10/2007		
STIENNON & STIENNON 612 W. MAIN ST., SUITE 201 P.O. BOX 1667 MADISON, WI 53701-1667			EXAMINER KIM, SANG K	
			ART UNIT 3654	PAPER NUMBER
			MAIL DATE 08/10/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/517,893

Applicant(s)

KOUTONEN ET AL.

Examiner

SANG KIM

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8-14 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 9315632 A.

Regarding claims 8 and 16, JP '632 discloses applicant's claimed invention, as shown in figures 1-2. A system for winding a web 4 into a web roll 2 by leading the web through a winding nip (no reference number assigned) defined between said web roll and a winding drum 1, the web defining a first wrap angle (θ_1) as the web passes through the nip, the wrap angle being the amount the web wraps the winding drum before entering the nip when the wrap angle is positive or negative (note, the wrap angle is relative to depending on which point of origin is measured from), measuring a hardness distribution of the web roll and changing the wrap angle in response to the measured hardness distribution is inherently taught since the wrap angle can change from the start values to desired values to prevent the web from air build up and wrinkles, which affects the roll hardness distribution when air is built up under the web, see paragraphs [0004] through [0008] and see figures 1-2.

Winding a fibrous web is notoriously old and well known for operating and manufacturing apparatus of all kinds, including winders. It would have been obvious to

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one having ordinary skill in the art at the time the invention was made to use a specific type of web into the web roll.

Regarding claims 9-12 and 17-19, as stated above, JP '362 discloses changing the wrap angle and regulated by moving the position of at least one guide roll 3, since the web is wound between the rolls, it prevents slippage of the web, see figures 1-2.

Regarding claims 13-14, as stated above, JP '362 discloses changing the wrap angle, which inherently changes the roll hardness distribution of the roll.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 9315632 A, in view of Griffin, U.S. Patent No. 4463586.

As stated above, JP '362 discloses changing the wrap angle in a slitter machine but does not explain explicitly how the wrap angle is controlled.

Griffin discloses the concept of using a closed loop system which controls the wrap angle, see abstract.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of JP '362 with a closed loop system for controlling the wrap angle taught by Griffin, in order to accurately adjust the wrap angle.

Response to Arguments

Claims 8, 11-12, 16 and 19 have been amended.

Applicant's arguments, see pages 8-9, filed on 6/13/07, with respect to claims 8-19 have been fully considered and are persuasive. The rejection of Muller '117, in view

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of Griffin '586 has been withdrawn. Muller '117 adjusts the wrap angle for coefficient of friction, which does not respond to hardness distribution measurements.

However, applicant's arguments filed on 6/13/07 have been fully considered but they are not persuasive with respect to claims 8-19. The rejection of JP '632 in view of Griffin '586 is still maintained.

Applicant argues that JP '632 fail to disclose measuring the roll hardness distribution of a wound roll, nor adjusting the wrap angle in response to such a measurement as claimed by the applicant's invention. Applicant alleges that JP '632 does not suggest in any way a measurement of roll hardness distribution since JP '632 discloses a method for winding to reduce or eliminate the film wrinkling.

As stated above, JP '632 inherently discloses measuring the roll hardness distribution of a wound roll by changing the wrap angle in response to the measured hardness distribution since JP '632 device is used to prevent the web from air build up and wrinkles, which affects the roll hardness distribution when air is built up under the web. During winding, if air is built up under the web, the surface layer wrinkles as a result. However, at the same time, any wrinkle and/or air pocket under the web causes the roll hardness distribution to change since air pockets under the web makes the roll hardness weaker in the area of air pockets as compare to non-air pocket regions. Obviously, JP '632 device is used to prevent the web from air build up and wrinkles by changing the wrap angle, which inherently changes the roll hardness distribution of a wound roll as a result.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANG KIM whose telephone number is 571-272-6947. The examiner can normally be reached Monday through Thursday from 9:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Cuomo, can be reached on (571) 272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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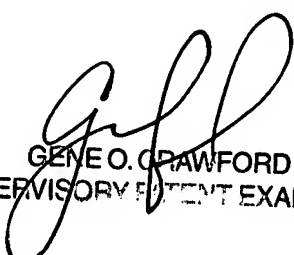
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For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SK

8/4/07



GENE O. CRAWFORD
SUPERVISORY PATENT EXAMINER